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MISSILE BE 3932, BOUND BE 290 RST

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WSMR METEOROLOGICAL TEAM

WSMR METEOROLOGICAL TEAM

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APR \$ 1977
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ATMOSPHERIC SCIENCES LABORATORY WHITE SANDS MISSILE BANGE, NEW MEXICO

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UNITED STATES/ARMY ELECTRONICS COMMAND W 5 m & .

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CONTENTS

| INTRODUC | TION | |
|----------|--|--|
| DISCUSSI | ON | |
| TABLES | | |
| ı. | Surface Observations Taken at LC-33 | |
| II. | Surface Observations Taken at WSD | |
| III. | Pilot-Balloon-Measured Wind Data, Releas | |
| IV. | Pilot-Balloon-Measured Wind Data, Releas | |
| v. | Jallen Significant Level Data (Release T | Cime: |
| VI. | Jallen Upper Air Data (Release Time: 1123 MDT) | |
| VII. | Jallen Mandatory Levels (Release Time: 1123 MDT) | |
| VIII. | Stallion Significant Level Data (Release 1210 MDT) | e Time: |
| IX. | Stallion Upper Air Data (Release Time: 1210 MDT) | |
| х. | Stallion Mandatory Levels (Release Time: 1210 MDT) | |
| XI. | WSD Significant Level Data (Release Time 1220 MDT) | 2: |
| XII. | WSD Upper Air Data (Release Time: 1220 MDT) | |
| XIII. | WSD Mandatory Levels (Release Time: 1220 MDT) | Reces (* ** |
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| | • | ENTERNIAN/AVAILABILITY CODES |
| AGE BLA | NK-NOT FILMED | AV. AL. and, or SPECIAL |

INTRODUCTION

12814A Lance, Missile Number 3932, Round Number 290 RST, was launched from LC-33, White Sands Missile Range (WSMR), New Mexico, at 1230 HRS MDT, 7 October 1976. The scheduled launch time was 1230 HRS MDT.

DISCUSSION

Meteorological data were recorded and reduced by the WSMR Meteorological Team, Atmospheric Sciences Laboratory (ASL), WSMR, New Mexico. The data are presented in the following tabulations.

| ELEVATION | 3,986.67 | FEET/MSI |
|-------------------|----------|-------------------|
| PRESSURE | 887.0 | MBS |
| TEMPERATURE | 16.7 | °c |
| RELATIVE HUMIDITY | 31 | % |
| DEW POINT | ~0.5 | С |
| DENSITY | 1,062.3 | GM/M ³ |
| WIND SPEED | 010 | мрн |
| WIND DIRECTION | 350 | DEGREES |
| CLOUD COVER | .1 .2 .6 | Cu Ac Ci |

TABLE I. SURFACE OBSERVATIONS TAKEN AT LC-33, 1230 HRS MDT/7 OCTOBER 1976.

| ELEVATION | 3,990.0 | FEET/MSI |
|-------------------|---------|-------------------|
| PRESSURE | 887.1 | MBS |
| TEMPERATURE | 14.4 | °C |
| RELATIVE HUMIDITY | 29 | % |
| DEW POINT | -3.4 | °C |
| DENSITY | 1,070.9 | GM/M ³ |
| WIND SPEED | 014 | мрн |
| WIND DIRECTION | 050 | DEGREES |
| CLOUD COVER | 2 4 | Cu Ac |

TABLE II. SURFACE OBSERVATIONS TAKEN AT WSD, 1232 HRS MDT/7 OCTOBER 1976.

| HEIGHT (FEET) | DIRECTION (DEGREES) | SPEED (MPH) | HEIGHT (FEET) | DIRECTION (DEGREES) | SPEED (MPH) |
|------------------|---------------------|----------------|---------------|---------------------|----------------|
| SUR | 360 | 10.0 | 2100 | 352 | 21.0 |
| 100 | 355 | 11.0 | 2200 | 354 | 20.0 |
| 200 | 355 | 11.0 | 2300 | 356 | 22.0 |
| 300 | 350 | 11.0 | 2400 | 357 | 21.0 |
| 400 | 346 | 12.0 | 2500 | 358 | 20.0 |
| 500 | 342 | 12.0 | 2600 | 360 | 20.0 |
| 600 | 343 | 13.0 | 2700 | 004 | 23.0 |
| 700 | 342 | 12.0 | 2800 | 006 | 27.0 |
| 800 | 343 | 13.0 | 2900 | 005 | 28.0 |
| 900 | 346 | 14.0 | 3000 | 008 | 28.0 |
| 1000 | 351 | 16.0 | 3100 | 013 | 26.0 |
| 1100 | 332 | 23.0 | 3200 | 020 | 28.0 |
| 1200 | 358 | 19.0 | 3300 | 011 | 28.0 |
| 1300 | 357 | 19.0 | 3400 | 011 | 26.0 |
| 1400 | 350 | 18.0 | 3500 | 001 | 25.0 |
| 1500 | 349 | 18.0 | 3600 | 003 | 27.0 |
| 1600 | 343 | 19.0 | 3700 | 004 | 24.0 |
| 1700 | 341 | 20.0 | 3800 | 001 | 24.0 |
| 1800 | 346 | 22.0 | 3900 | 005 | 22.0 |
| 1900 | 350 | 22.0 | 4000 | 006 | 21.0 |
| 2000 | 350 | 22.0 | 4100 | 007 | 21.0 |

TABLE III. PILOT-BALLOON-MEASURED WIND DATA, RELEASE NO. 1
RELEASED FROM LC-33, AT 1225 MDT/7 OCTOBER 1976
12814A LANCE, MISSILE NO. 3932, ROUND NO. 290 RST

PIBAL RELEASE POINT WSTM COORDINATES:

X = 486,296.83 Y = 185,251.85 Z = 3,986.67

APPROXIMATELY: 815 FEET SOUTH SOUTHEAST OF LAUNCHER.

| HEIGHT (FEET) | DIRECTION (DEGREES) | SPEED (MPH) |
|------------------|---------------------|----------------|
| 4200 | 004 | 21.0 |
| 4300 | 005 | 21.0 |
| 4400 | 001 | 23.0 |
| 4500 | 360 | 23.0 |
| 4600 | 358 | 22.0 |
| 4700 | 360 | 22.0 |
| 4800 | 351 | 23.0 |
| 4900 | 356 | 21.0 |
| 5000 | 003 | 22.0 |
| 5100 | 004 | 21.0 |
| 5200 | 004 | 21.0 |
| 5300 | 008 | 22.0 |
| 5400 | 017 | 22.0 |
| 5500 | 019 | 21.0 |
| 5600 | 008 | 23.0 |
| 5700 | 012 | 27.0 |

| HEIGHT (FEET) | DIRECTION (DEGREES) | SPEED (MPH) |
|------------------|---------------------|----------------|
| 5800 | 011 | 22.0 |
| 5900 | 004 | 23.0 |
| 6000 | 009 | 22.0 |
| 6100 | 346 | 21.0 |
| 6200 | 355 | 21.0 |
| 6300 | 359 | 22.0 |
| 6400 | 351 | 24.0 |
| 6500 | 345 | 23.0 |
| 6600 | 348 | 25.0 |
| 6700 | 353 | 24.0 |
| 6800 | 351 | 27.0 |
| 6900 | 353 | 27.0 |
| 7000 | 354 | 27.0 |
| 7100 | 355 | 27.0 |
| 7200 | 353 | 23.0 |

TABLE III. (CONT)

| HEIGHT (FEET) | DIRECTION (DEGREES) | SPEED (MPH) |
|---------------|---------------------|----------------|
| SUR | 360 | 10.0 |
| 100 | 356 | 10.0 |
| 200 | 351 | 10.0 |
| 300 | 344 | 9.0 |
| 400 | 341 | 9.0 |
| 500 | 336 | 9.0 |
| 600 | 331 | 8.0 |
| 700 | 330 | 8.0 |
| 800 | 330 | 9.0 |
| 900 | 334 | 10.0 |
| 1000 | 334 | 10.0 |
| 1100 | 335 | 11.0 |
| 1200 | 335 | 11.0 |
| 1300 | 337 | 12.0 |
| 1400 | 338 | 12.0 |
| 1500 | 338 | 12.0 |
| 1600 | 339 | 13.0 |
| 1700 | 342 | 13.0 |
| 1800 | 343 | 14.0 |
| 1900 | 348 | 14.0 |
| 2000 | 352 | 15.0 |

| HEIGHT (FEET) | DIRECTION (DEGREES) | SPEED (MPH) |
|---------------|---------------------|----------------|
| 2100 | 356 | 16.0 |
| 2200 | 358 | 18.0 |
| 2300 | 360 | 19.0 |
| 2400 | 360 | (epa) |
| 2500 | 001 | Store |
| 2600 | 001 | 0.00 |
| 2700 | 003 | 488 |
| 2800. | 004 | 000 |
| 2900 | 007 | |
| 3000 | 008 | 0.00 |
| 3100 | 008 | 19.0 |
| 3200 | 008 | 20.0 |
| 3300 | 008 | 20.0 |
| 3400 | 007 | 21.0 |
| 3500 | 007 | |
| 3600 | 007 | |
| 3700 | 007 | - 0 |
| 3800 | 006 | 0.0 |
| 3900 | 008 | |
| 4000 | 009 | 21.0 |
| 4100 | 010 | 18.0 |

TABLE IV. PILOT-BALLOON-MEASURED WIND DATA, RELEASE NO. 2
RELEASED FROM LC-33, AT 1235 MDT/7 OCTOBER 1976
12814A LANCE, MISSILE NO. 3932, ROUND NO. 290 RST

PIBAL RELEASE POINT WSTM COORDINATES:

X = 486,296.83 Y = 185,251.85 Z = 3,986.67

APPROXIMATELY: 815 FEET SOUTH SOUTHEAST OF LAUNCHER.

| HEIGHT (FEET) | DIRECTION (DEGREES) | SPEED (MPH) |
|------------------|------------------------|----------------|
| 4200 | - 013 | 19.0 |
| 4300 | 015 | 19.0 |
| 4400 | 017 | 18.0 |
| 4500 | 012 | 21.0 |
| 4600 | 016 | 18.0 |
| 4700 | 012 | 19.0 |
| 4800 | 006 | 19.0 |
| 4900 | 360 | 22.0 |
| 5000 | 354 | 21.0 |
| 5100 | 349 | 21.0 |
| 5200 | 341 | 21.0 |
| 5300 | 344 | 22.0 |
| 5400 | 346 | 21.0 |
| 5500 | 349 | 18.0 |
| 5600 | 348 | 20.0 |
| 5700 | 347 | 22.0 |
| 5800 | 344 | 23.0 |
| 5900 | 347 | 23.0 |
| 6000 | 344 | 22.0 |
| 6100 | 354 | 24.0 |
| 6200 | 350 | 24.0 |
| 6300 | 350 | 23.0 |
| 6400 | 349 | 26.0 |
| 6500 | 357 | 27.0 |

| HEIGHT (FEET) | DIRECTION (DEGREES) | SPEED (MPH) |
|------------------|------------------------|----------------|
| 6600 | 350 | 26.0 |
| 6700 | 351 | 28.0 |
| 6800 | 351 | 29.0 |
| 6900 | 352 | 30.0 |
| 7000 | 352 | 31.0 |
| 7100 | 351 | 32.0 |
| 7200 | 353 | 9 |
| 7300 | 352 | |
| 7400 | 352 | |
| 7500 | 351 | |
| 7600 | 348 | 32.0 |
| 7700 | 347 | 30.0 |
| 7800 | 345 | 30.0 |
| 7900 | 343 | 29.0 |
| 8000 | 338 | 28.0 |
| 8100 | 335 | 28.0 |
| 8200 | 333 | 28.0 |
| 8300 | 332 | 27.0 |
| 8400 | 332 | 27.0 |
| 8500 | 331 | 26.0 |
| 8600 | 325 | 23.0 |
| 8700 | 323 | 22.0 |
| 8800 | 320 | 22.0 |
| 8900 | 317 | 23.0 |

TABLE IV. (CONT)

| HEIGHT (FEET) | DIRECTION (DEGREES) | SPEED (MPH) | |
|------------------|------------------------|----------------|--|
| 9000 | 313 | 24.0 | |
| 9100 | 314 | 23.0 | |
| 9200 | 315 | 22.0 | |
| 9300 | 316 | 22.0 | |
| 9400 | 316 | 21.0 | |
| 9500 | 314 | 21.0 | |
| 9600 | 312 | 22.0 | |
| 9700 | 310 | | |
| 9800 | 309 | | |
| 9900 | 309 | | |
| 10000 | 309 | 22.0 | |
| 10100 | 311 | 23.0 | |
| 10200 | 311 | 25.0 | |
| 10300 | 311 | 27.0 | |
| 10400 | 312 | 29.0 | |
| 10500 | 312 | 31.0 | |

| HEIGHT (FEET) | DIRECTION (DEGREES) | SPEED (MPH) |
|------------------|------------------------|----------------|
| 10600 | 311 | 32.0 |
| 10700 | 310 | 33.0 |
| 10800 | 310 | 35.0 |
| 10900 | 311 | 35.0 |
| 11000 | 311 | 35.0 |
| 11100 | 320 | 41.0 |
| 11200 | 320 | 42.0 |
| 11300 | 320 | 43.0 |
| 11400 | 318 | 44.0 |
| 11500 | 317 | 44.0 |
| 11600 | 318 | 44.0 |
| 11700 | 319 | 43.0 |
| 11800 | 321 | 44.0 |
| 11900 | 322 | 45.0 |
| 12000 | 322 | 45.0 |

TABLE IV. (CONT)

| T | |
|------|------------------------|
| ¥ | |
| HRS | |
| 1123 | |
| | 304 |
| | |
| | 0: |
| 16 | Z |
| 001 | Cr NS10 |
| 1 | ASA |
| | 7 OCT. 76 1123 HRS MDT |

| DATA | |
|---------------------------------|--------|
| SIGNIFICANT LEVEL 28100_0304 | JALLEN |

TABLE V

#STM SITE COORDINATES 4c0491.60 FEET E 464023.05 FEET N

| TENPERATOR AIR DEWIG DEGNEES CENII |
|--|
| |
| |
| 2.9 |
| • |
| 9.1- |
| 7.5 |
| • |
| • |
| -9.0 |
| • |
| |
| -10.2 |
| 1.6 |
| -15. |
| • |
| 25. |
| 56. |
| 6.9 |
| ė |
| 8 |
| 4.97- |
| 53. |
| 9.4= |
| -1. |
| 58 |
| . 6. |
| 58. |
| 60. |

STAILON ALLITODE 4051.00 FEET MSL 7 OCT. 76 304 ASCENSION NO.

SIGNIFICANT LEVEL DATA 28100,0364 JALLEN

ASTM SITE COORDINATES 4<0491.60 FEET E 444023.05 FEET N

TABLE V (CONT)

PRESSURE GEOMETRIC

IETPERATONE AIR DEWNOINT DEGREES CENTIGRADE

KEL . HUK.

-63.0 -64.4 -63.7 -64.7 -63.6 -57.6 -55.3 -61.7 -55.5 6.05--63.4 0.09-+-09--58.8 -53.8 ALTITUDE MILLIBARS NSL FEET 75999.7 77258.6 79304.4 45314.6 48041.8 50009.9 52032.6 52400.6 55809.2 57917.0 59750.6 61437.0 53349.2 54141.0 56701.0 57173.3 64626.3 68035.1 68453.7 63944.1 119.0 104.0 0.09 111.0 83.0 76.0 70.0 65.0 51.0 20.0 35.0 33.0 92.0 88.0 86.0 150.0 135.0 109.0 10000

9

| STATION ALTITUDE 4051.00 FEET MSL | E | 10 | |
|-----------------------------------|------|--------|-------------------|
| FET | 00 | 2 | |
| Ū. | 111 |) III | |
| = | 1100 | 711 | |
| 151 | | | |
| t | | | 304 |
| ULE | | | • |
| 111 | | | ė, |
| AL | 1 | 0 | = |
| NO | | 0/ 100 | ASCENSION NO. 304 |
| I | | 3 | 7 |

UPPLR AAR DATE 2810030304 JALLEN

TABLE VI

WSIM SITE COORDINATES 4.0491.00 FECT E 4.4023.05 FECT N

| INDEX OF PEFRACTION | 1.000269 1.000262 1.000252 1.000248 1.000248 1.000259 1.000259 1.000230 | 1.000223 1.000219 1.000215 1.000207 1.000203 1.000199 1.000191 1.000186 1.000163 1.000163 1.000163 1.000163 1.000163 |
|-----------------------------------|--|--|
| reeo ofs | 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 | 0 4 4 5 4 5 6 7 8 8 8 8 8 4 4 4 8 9 8 9 8 9 8 9 8 9 8 9 |
| UINECTION SP | 11 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 6.00 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| SPEED OF SOUND KNOTS | 059.9 056.9 0574.8 0571.1 0677.9 047.7 | 00000000000000000000000000000000000000 |
| DENSIT, S GM/CUB1C METLR | 1074.2 1067.9 1055.7 1034.7 1012.0 994.1 965.9 | 993 992 992 992 993 993 993 993 993 993 |
| REL . HUM. PERCENT | 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | 255 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 |
| TURE WPOINT 11GRADE | 11011111111111111111111111111111111111 | 26 6 5 8 5 8 5 8 5 8 5 8 5 8 5 8 5 8 5 8 |
| TEMPERA AIR DE LEGREES CEN | | 11111111111111111111111111111111111111 |
| PRESSURE MILLIBARS | | 735.4 721.5 721.5 694.5 668.1 617.6 617.6 617.6 527.6 527.6 |
| GEOMETRIC ALTITUDE MSL FEEL | 4051.0 4500.0 5500.0 6500.0 7000.0 7500.0 7500.0 | 10 10,500.0 11,500.0 12,500.0 13,500.0 14,500.0 15,500.0 16,500.0 17 |

| FEET MSL | HRS MOT | |
|---------------------------|----------|---------------|
| 4051.00 | 1123 HRS | 9 1 |
| ALITINDE 4051.00 FEET MSL | 76 | 14 ho. 364 |
| STALLON | 7 OCT. | ASCENSTON NO. |

UPPER AIN DATA 2810050364 JALEN

WSTM SITE COOKDINATES 4:0491.60 FEET E 4:4023.05 FEET N

TABLE VI (CONT)

| INDEX OF REFERENTION | 1.000151 | 1.000146 | 1.000144 | 1.000141 | 1.000139 | 1.000136 | 1 • 000134 | 1.000131 | 1.000129 | 1.000127 | 1.000125 | 1.000123 | 1.000121 | 1.000119 | 1.000116 | 1.000114 | 1.000112 | 1.000110 | 1.000108 | 1.000106 | 1.000104 | 1.000103 | 1.000101 | 1.000099 | 1.0000gg | 1.000096 | 1.000094 | 1.000093 | 1.000001 |
|---|----------|----------|----------|----------|----------|----------|------------|----------|-----------|----------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|----------|----------|----------|-----------|----------|-----------|----------|----------|
| SPEED K-4015 | 000 | 71.0 | 74.6 | 76.6 | 78.6 | 80.7 | 82.7 | 84.6 | 86.6 | 87.n | H8.1 | 88.4 | 88.°° | 89.0 | 5.16 | 95.5 | 30.46 | 97.0 | ಿ-66 | 102.3 | 103.5 | 104. | 106.3 | 107.3 | 107. | 106.6 | 106.3 | 100.1 | 106.5 |
| WIND DATA LIKECTION S JECHCES(TN) K | 247.9 | 345.5 | 344.9 | 343.4 | 341.9 | 340.5 | 341.0 | 341.0 | 545.5 | 342.9 | 343 € | 3+4+6 | 345.4 | 345.1 | 344.6 | 344.1 | 343.3 | 345.0 | 340.9 | 359.7 | 339.4 | 339.1 | 338∙8 | 358.5 | 337.9 | 357.3 | 336.7 | 336.0 | 535.4 |
| SPEED OF SCHIND KITS | 6.639 | 0.000 | 0.000 | 0.500 | 624.7 | 553.4 | 025.1 | 6.000 | 619.6 | 019.3 | 617.0 | 6,15.4 | 613.9 | 512.3 | 01104 | 611.4 | 610.7 | 5.6u0 | 9.7.09 | 0.009 | 4·4U9 | 9.7va | 61.10 | 299.7 | 598.1 | 506.5 | 595.0 | 593.5 | 891.9 |
| DENSITY SM/CUBLC METER | 9.799 | | 631.3 | 62,.2 | 4.609 | 59,,5 | 58.7.8 | 58,.2 | 57,.9 | 9.795 | 55, 6 | 6.045 | 533.4 | 527.0 | 51/.6 | 500.8 | 497.3 | 487.2 | 48.3 | 47,05 | 463.9 | 45,.4 | 454.0 | 9.C 44 | 430.5 | 423.1 | 421.0 | 414.5 | 40104 |
| KEL.HUM. PERCENT | 27.1 | 28.0 | 28.5 | 59.0 | 28.0 | 28.2 | 4.83 | 28.5 | 28.7 | 58.9 | 28.9 | 28.7 | 58.4 | 28.5 | 27.6 | 56.6 | 26.2 | 56.6 | 6.92 | 27.3 | 27.7 | 28.1 | 28.5 | 6.83 | 0.67 | 27.6** | 23.3** | 19.0** | 14.7** |
| TEMPÉRATURE R DEWPOINT EES CENTIGNADE | -27.0 | 1000 | -29.1 | 8-62- | -30.3 | -31.2 | -32.0 | -35.9 | -33.7 | -34.6 | -35.5 | -36.7 | -37.9 | -39.1 | -39.9 | -40.3 | 6.01- | -41.9 | -45.9 | -43.8 | 8.44- | 9-64- | -46.6 | 2-41-8 | 6.84- | -50.4 | -52.9 | -55.6 | -58.6 |
| TEMP AIR CEGREES | 6-11- | 6-21- | | 6.61- | -10.1 | -17.2 | -10.5 | -19.3 | -20.3 | -21.3 | 4.77- | -23.7 | 6.47- | -20.1 | 6.97- | 6.07- | 4.12- | -28.7 | 6-62- | -31.2 | -32.5 | -33.7 | -35.0 | -30.5 | -37.5 | -38.7 | -39.9 | -41.1 | -42.3 |
| PRESSURE MILLIBARS | 497.2 | 477.7 | 468.2 | 458.9 | 8.644 | 440.7 | 431.8 | 423.0 | 414.5 | 406.1 | 9.765 | 389.6 | 381.6 | 573.7 | 366.0 | 358.3 | 350.8 | 343.4 | 336.1 | 328.9 | 321.9 | 315.1 | 308.4 | 301.8 | 295.3 | 288.8 | 282.4 | | 270.0 |
| GEOMETRIC ALTITUDE MSL PEET | 19000.0 | 200000 | 20500-0 | 21000.0 | 21500.0 | 2200000 | 22500 • 0 | 23000.0 | 23500 • 0 | | 0.00542 1 | | 25500.0 | 2000000 | 20500.0 | 27000.0 | 27500.0 | 29000.0 | 28500.0 | 29000.0 | 29500 • 0 | 300000 | 36500.0 | 31000.0 | 31500 • 0 | 32000.0 | 32500 • 0 | 35000.0 | 33500.0 |

AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE ANS USED IN THE INTERPOLATION.

| | UPPER ALK DAL | |
|-----------------------------------|---------------|-------------------|
| STATION ALTITUDE 4051.00 FEET MSL | 28100,0304 | WSTM SITE COORDIN |
| 7 OCT. 76 1123 HRS MOT | JALLEN | 4.0491.60 FE |
| NO. 304 | | 4.4023.05 FE |
| | (many) | |

| STATION ALTII 7 OCT. 76 ASCENSION NO. | STATION ALTITUDE 4051.00 FEET MSL 7 OCT. 76 1123 HRS MDT ASCENSION NO. 304 | 51.00 FEET . 1123 HRS MDT | T riSL MOT | | 2810050304 JALLN | <u>.</u> | | WSTM SITE | SITE COORDINATES 450491.60 FEET E 474023.05 FEET W | |
|---------------------------------------|--|---|---------------|---------------------|------------------------------|-----------------------------|---|----------------|--|--|
| | | | | | TABLE VI (CO | (CONT) | | | | |
| GEOMETRIC ALTITUDE MSL FELT | PRESSURE MILLIGARS | TEMPERATUR AIR DEWPO DEGREES CENTIG | E INT | RÉL.HUM. PERCENT | DENSIT, GM/CUB.C METER | SPILTD OF SOUND MARTS | WIND CATA CIRECTION SPEED DEGRECS(IN) MUOTS | SPEED KNOTS | INDEX OF REFRACTION | |
| 34000.0 | 264.0 | -43.5 | -62.2 | 10.4** | 40.05 | 500.4 | 7.450 | 107. | 1.0000069 | |
| 34500.0 | 253.1 | 1.44- | -67.1 | 6.1** | 395.6 | S-8-6 | 3.34.6 | 107.5 | 1.000086 | |
| 35000.0 | 252.4 | 6.04- | 0.92- | 1.8** | 38,09 | • | 333.6 | 108.0 | 1.000086 | |
| 35500.0 | 241-0 | 14/.7 | | | 32.00 | 0000 | 333.5 | 109.5 | 1.0000035 | |
| 36500.0 | 235.5 | 147.00 | | | 367.3 | | 333. | | 1.000032 | |
| 37000.0 | | -51.1 | | | 36.00 | 5.0.5 | 333.5 | | 00000 | |
| 37500.0 | | -52.5 | | | | | 333.7 | 106.2 | 1.0000179 | |
| 38000.0 | | -53.7 | | | •, | 577.1 | 354.0 | 104.3 | 1.000078 | |
| 38500.0 | | -54.4 | | | - | 5-0-5 | 334 • 2 | 102.4 | 1.000076 | |
| 3900000 | | -55.5 | | | 330.2 | 0.440 | 3.55.5 | 100.0 | 1.000075 | |
| | 204.5 | -56.7 | | | 323.2 | 573.1 | 3355 | 966 | .00007 | |
| 4000000 | 199.7 | -57.9 | | | 323.2 | 571.5 | 336.0 | 4.96 | | |
| 40500.0 | 104.9 | -59.5 | | | 310.9 | 571.2 | 337.5 | 97.1 | | |
| 41000.0 | | -500-5 | | | 300.0 | 570.8 | 338.€ | 6.46 | 1.000069 | |
| 0.00514 | 185.7 | -200- | | | 300.0 | 5-1-5 | 339.8 | 0.06 | 1.000067 | |
| 4-2000-0 | | -26.5 | | | 297.5 | 573.8 | 341.1 | 8/.0 | • 00000 | |
| 45500.0 | 177.0 | 1-99- | | | 284.9 | 573.2 | 342.6 | 84.3 | 1.000063 | |
| 43000.0 | 172.8 | -57.3 | | | 273.0 | 575.3 | 344.1 | 81.1 | 1.000052 | |
| 43500.0 | 168.7 | -50.0 | | | 27.0.2 | 5.170 | 345.1 | 77.0 | 1.00000-1 | |
| 0.0000 | 164.7 | -26.9 | | | 267.8 | 570.3 | 346.2 | 72.0 | 1.000060 | |
| 44500.0 | 160.8 | -60.3 | | | 263.1 | 568.4 | 347.4 | 8.99 | 1.000059 | |
| 45000.0 | 156.9 | -01.5 | | | S | 566.8 | 347.1 | 0.99 | 1.000058 | |
| 45500.0 | 153.1 | -02.5 | | | 25,02 | 56.5.4 | 345.1 | 64.5 | 1.000056 | |
| 40000.0 | 149.4 | -03.5 | | | 240.1 | 544.1 | 343.0 | 63.0 | 1.000055 | |
| 46500.0 | 145.7 | -03.B | | | 244.4 | | 340.7 | 61.5 | • | |
| 47000.0 | 142.1 | -64.1 | | | 230.8 | 563.3 | 337.7 | 0.09 | 1.000053 | |
| 47500.0 | 138.7 | 4.+0- | | | 31. | | | 58.7 | 1.000052 | |
| 4000000 | | 10401 | | | 250.1 | 562.5 | 532.3 | 2009 | 1.000050 | |
| 46500.0 | 132.0 | -63.9 | | | 1,, | 563.6 | • | 53.8 | • | |
| | | | | | | | | | | |

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

| SITE COORDINATES 450491.60 FEET E 4.4023.05 FEET N | INDEX OF REFHACTION | 1.000048 | 1.000044 | +00000 | 1.000040 | 1.000038 | 1.000037 | 1.0000055 | 1.000034 | 1.000032 | 1.000029 | 1.000028 | 1.000028 | 1.000027 | 1.000026 | .00 | · 00000 | 0 | 1.000023 |
|---|---|--------------|----------------|---------|----------|----------------|----------|---------------------------------|----------------|----------|----------|----------|----------|----------|----------|---------|------------|---------|----------|
| wSГM SITE 4504 4.402 | SPEED KNOTS | 50.8 46.9 | 37.7 | 29.3 | 21.1 | 1000 | 17.0 | 21.2 | 22.1 | 22.5 | 20.3 | 16.8 | 14.2 | 12.9 | 13.5 | 14.3 | b.6 | • | 5.5 |
| | WIND DATA DIRECTION S DEGREES(TW) K | 330.3 | 327.7 | 322.5 | 313.2 | 302 · 3 | 305.8 | 321.0 | 325-8 | 331.9 | 334 • 6 | 335.8 | 337.8 | 346.3 | 350.2 | 355.4 | 9.6 | 38.6 | 36.5 |
|), i A)4 ONT) | SPEED OF SOUND ANOTS | 564.8 | 500.5 | 566.3 | 563.0 | 563.6 563.6 | 561.7 | 550 550 550 550 550 | 559.8 562.8 | | | 571.0 | | 567.5 | 567.0 | 547.8 | 269.0 | 570.2 | 571.3 |
| UPPER AIR DATA 2810030304 JALLEN TABLE VI (CONT) | DENSITI GW/CURIC METER | 213.4 | 190.7 | 18/0 | 18,09 | 17.02 | 164.6 | 157.9 | 33 | 141.6 | 13,03 | 12/.8 | 123.5 | 12,.3 | 117.6 | - | 0 | 5 | 102.6 |
| _ | REL.HUM. PERCENT | | | | | | | | | | | | | | | | | | |
| 1123 HRS MDT | TEMPERATURE A1K DEWPOINT DEGREES CENTIGRADE | 0.5.0 | -01.1 -60.2 | 6.10 | | 0.4.0 | 5.00 | 0.7.0 | -64.5 | 50.00 | -53.5 | -58.3 | -59.7 | 0.10- | -01.4 | -60.7 | -59.6 | -59.0 | -50.1 |
| UDE 4051 304 | PRESSURE | 126.8 | 119.6 | | 108.5 | 103.2 | 98.5 | 93.4 | 91.1 | 54.7 | 62.7 | 78.8 | 75.9 | 73.3 | 71.5 | | 66.5 | | 63.3 |
| STATION ALTIT 7 OCT. 76 ASCENSION 1:0. | GEOMETRIC ALTITUDE SSL FEET | 49000.0 | 5050000 | 51500•0 | 52500.0 | 55500.0 | 0.00545 | 55500.0 | 56500.0 | 57500.0 | 5000000 | 590000 | 59500.0 | 605000 | 61500.0 | 62000.0 | 62500.0 | 63000.0 | 63500.0 |

The second secon

| ۲ | |
|--|-----------------------|
| 4051.00 FEET 45 1123 HRS MDT | * |
| STATION ALITYCE 4051.00 FEET ASL 7 CCT. 76 1123 HRS MDT | ASCE 1.510.1 1.0. 004 |

UPPER Aik DATE 28100JUSO4 JALLEN

WSTM SITE COORDINAIES 450491.60 FEET E 434023.05 FEET N

TABLE VI (CONT)

| INDEX OF KEFRACTION | .00002 | 220000-1 | | 1.000021 | 1.000020 | 1.000020 | 1.000019 | 1.000019 | 1.000018 | 1.000018 | 1.000017 | | 1.000017 | 1.000016 | 1.000016 | 1.000015 | 1.000015 | 1.000015 | 1.000014 | 1.000014 | 1.000014 | 1.000013 | 1.000013 | 1.000013 | 1.000012 | 1.000012 | .00001 | 1.000011 | 10000. | 1.000011 |
|---|---------|----------|---------|----------|----------|----------|----------|----------|------------|----------|----------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|----------|---------|----------|
| SPEED KNOTS | | • | 0 | 000 | 2.5 | • | | 8.1 | ာ အ | 7.0 | 9.4 | o, 1 | 7.1 | 9.6 | 6.7 | 3.4 | 3.0 | 3.5 | 3.0 | 3.1 | 8.0 | 3.5 | 3.8 | 5.1 | 9.9 | 8.3 | 10.5 | 10.6 | | |
| WIND DATA DIRECTION S DEGREESCIN) K | 148.2 | 0.4/1 | 167.6 | 191.1 | 194.0 | 197.3 | 199.5 | 198.0 | 196.3 | 191.3 | 197.5 | 308.6 | 353.8 | 331.8 | 529.3 | 30900 | 199.1 | 194.0 | 199.6 | 196.2 | 205.€ | 196.0 | 186.8 | 161.5 | 178.5 | 169.4 | | 155.5 | | |
| SPEED OF SOUND KHOTS | 572.2 | 270.1 | 571.1 | 572.1 | 573.0 | 574.0 | 575.0 | 576.0 | 576.9 | 574.8 | 9.470 | 575.1 | 575.3 | 575.5 | 575.6 | 575.6 | 576.0 | 576.2 | 570.3 | 576.5 | 2.925 | 5.96.9 | 577.0 | 2.770 | 577.4 | 578.7 | 580.1 | 500.6 | 580.2 | 8.649 |
| DENSITA S GM/CUBIC METER | 6.66 | 0.00 | 9,05 | 0.06 | 30.5 | 80.1 | 82.1 | 4.00 | 81.2 | 7,.8 | 6.12 | 70.1 | 74.2 | 7,.5 | 7.07 | 0.69 | 4.19 | 62.8 | 64.62 | 64.7 | 7.19 | 59.7 | 5,.3 | 50.9 | 50.5 | 24.0 | 5-5 | 5,12 | 5,.1 | 4 3.0 |
| KEL.HUM. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TEMPERATURE AIR DEWFOINT DEGNEES CENTIGNADE | 157.4 | -50.5 | -58.3 | -57.5 | 8.00- | -50.1 | -55.3 | 9.46- | 6.53- | -55.5 | -55.4 | -55.2 | -55.1 | -55.0 | 8.40- | 1-54-7 | -54.6 | h.#c- | -54.3 | 104.2 | -54.0 | -53.9 | -53.8 | -55.6 | -53.5 | -52.5 | -51.4 | -51.0 | -51.3 | -51.6 |
| PRESSURE MILLIBARS | 61.8 | 6.0.4 | 59.9 | 57.6. | 50.5 | 6.49 | 53.6 | 52.3 | 51.1 | 6.64 | 48.7 | 4.7.6 | 46.5 | 4.5.4 | 44.3 | 43.3 | 42.3 | 41.3 | 40.3 | 39.4 | 38.5 | 37.6 | 36.7 | 35.8 | 35.0 | 34.2 | 33.4 | 32.6 | 31.9 | 31.1 |
| SEGMETRIC ALTITUE MSL FEET | 0.00049 | 0.00549 | 0.00059 | 65500.0 | 0.00000 | 0.00500 | 0.00000 | 67500.0 | 0.00000 | 66500.0 | 0.00069 | 69500 • 0 | 70000.0 | 7,500.0 | 71000.0 | 71500.0 | 72000-6 | 7,500.0 | 73000.0 | 73500.0 | 74000.0 | 74500.0 | 75000.0 | 75500.0 | 76000.0 | 70500.0 | 77000.0 | 77500.0 | 7000000 | 78500.0 |

| FLE F.S | S MDT |
|------------------------------------|---------|
| 4051.00 | 1123 HR |
| STATION ALTITUDE 4051.00 FLET HIST | 76 |
| Lori | L. T. |

UPPER A.R URTS 25160_0504

JALLIN

PRESSURE TEMPERATURE AIK DEWFOINT MILLIBARS DEGREES CENTIGRADE GEOMETRIC PRESSURE ALTITUDE SL PEET

..SIM SITE COOKUINATES 45,0491.60 FEET E 454023.05 FEET N REFRACTIO. INCEX DIRECTION SPEED DEGREES(TID) KNOTS WING CATA PERCENT OM/CURIC SOUND METER ANOTS TABLE VI (CONT)

4.97 579.4

6-15-

30.4

7900000

1.000011

15

STATION ALTITODE 4051.00 FLET MSL 7 OCT. /c 1123 HRS MDT ASCLNSION NO. 384

MANDATOR, LEVELS 25100,0364 JALLEN

4.0491.60 FLET L

TABLE VII

MINECTION SPEEDERERESTED AIR DEWPOL,T PEPCENT PRESSURE GEOPOTENTIAL FEET MILLIBARS

| | 24.0 | 55.9 | 16.9 | 14.0 | 17.6 | 28.0 | 1.11 | 65.7 | 78.5 | 86.0 | 2.46 | 107.2 | 106.2 | 98.5 | 85.8 | 63.5 | 0.94 | 16.6 | 18.4 | 14.5 | 6.9 | 7.5 | 3.3 | |
|---|------------|-------|-------|--------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | 23.8 | 35.0 | 38.3 | 24.8 | 7. † | 339.9 | 334.6 | 3+0.3 | 342.0 | 343.5 | 343.2 | 338.4 | 555.6 | 330.6 | 340.3 | 343.4 | 523.3 | 304.5 | 334.8 | 351.8 | 178.4 | 192.0 | 191.1 | |
| | 41. | + + + | 1,4. | 48. | 65. | 42. | .55 | 27. | 28. | .60 | 26. | .60 | | | | | | | | | | | | |
| | -4- | -7. | -10.1 | -13. | -13. | -21.5 | -25.0 | -26.0 | -30.0 | -35. | -41. | -48. | | | | | | | | | | | | |
| | 8.6 | 3.7 | α. | -3.7 | -8.0 | -11.0 | -6.5 | -11.6 | -16.1 | -22.1 | -27.6 | -36.6 | 46.4 | -57.9 | -57.0 | -63.4 | -61.8 | 1-64.7 | -57.4 | -61.7 | -58.8 | -55.5 | -54.5 | -52.1 |
| ! | 5145. | 6775. | 8486. | 10290. | 12195. | 14221. | 16432. | 18836. | 21462. | 24338. | 27517. | 51089. | 35147. | 39881. | 42647. | 45605. | 49475. | 53990. | 58512. | 01244. | 04414. | 68217. | 72897. | 78991. |
| i | 0.060 | 0.000 | 750.0 | 700.0 | 0.059 | 0.009 | 556.0 | 500.0 | 0.00% | 400.0 | 350.0 | 300.0 | 0.067 | 200.0 | 175.0 | 150.0 | 125.0 | 100.0 | 0.00 | 70.0 | 0.09 | 20.0 | 0.04 | 36.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | |

AT LEAST ONE ASSUMED RELATIVE FUMIDITY VALUE MAS USED IN THE INTERPOLATION.

| 110. | ALI I UDE | 4940.00 FEEL F |
|------|-----------|----------------|
| cr. | 7 UCT. 76 | 1210 HRS MDT |

| STGNIFICANT LEVEL OATA POINO, UZSO STALLION | TABLE VIII | Toke REL |
|---|------------|--------------------|
| 2010 S 10 | TABI | 1E.PERATORE |
| 75 | | PRESSURE OF ONCINE |
| UU FEET MSL)HRS MDT | | PRESSURE |

457M S.TE COORDIAATES 453783.00 FEET E 751403.00 FEET 14

| Perceni | | 34.0 | | | • | | | 0.04 | | | | | | | 96.0 | 35.0 | 36.6 | | | | | | | | | | | | |
|-------------------------|--------|-------|------|-------|---------|-------|---|---------|---------|-------|---------|-------|---|---------|------|------|------|---------|---------|-------|---------|-------|-------|-------|---------|---|------|-----|---------|
| DEW OINT CEM, ISRA, | 9.0- | -5.3 | -2-1 | 6.01- | 1.5.7 | - | + | 6.17- | · | + | .2. | 3 | | 1.6 | .3. | • | + | | | | | | | | | | | | |
| A.F. | 11.8 | 9.8 | 4.3 | -2.9 | • | -11.8 | | -11.0 | -12.9 | 12. | 6 | -12.5 | 2 | -18.0 | · | 3 | 0 | 7 | .0 | - | ÷ | . 49 | 66. | 63. | 1. | 3 | 8 | 61. | -62.5 |
| ALTITUDE S I SL FELT | 4940.3 | | | - | 10319.3 | | | 13843.4 | 14534.0 | 1 | 1.40691 | | | 22239.0 | | | | 35068.4 | 36234.7 | | 40600.3 | | | | 54349.3 | | | | 62144.6 |
| ILLIBARS | 0.860 | 550.8 | | 739.3 | | 626.8 | | | | 575.3 | | | | 435.8 | | | | | | 200.1 | 192.7 | 150.3 | 129.3 | 110.3 | | | 83.0 | | 0.79 |

| STALION | ALIII UCE | ALTITUDE 4946.00 FEET MSL |
|---------|-----------|---------------------------|
| 0.00 | | TOTAL CALL DIST |

のできる (1945年) (1945年)

SIGHFICANT LEVEL UNTA 2810040230 STAL_ION

WSTM SITE COOKDINATES 403783.00 FEET E 7:1463.00 FEET N

TABLE VIII (CONT)

| REL.HUM. PERCENT | |
|--|--|
| TEMPERATORE AIR DEWFOINT DEGREES CENIIGRADE | -59.4 -55.2 -56.6 -53.0 |
| PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEET | 64.0 63084.6 50.0 68237.7 45.0 70452.5 34.0 76375.7 |
| PRESSUR MILLIBAR | 50.0 50.0 34.0 |

18

| SITE COORDINALES 403783.00 FEET E 701403.00 FEET N | INDEX OF REFRACTION | 1.000251 1.000251 1.000250 | 00023 00023 00023 00023 00022 | 1.000217 1.000214 1.000211 1.000209 1.000206 1.000206 1.000200 | 1.000185 1.000173 1.000174 1.000170 1.000167 1.000164 1.000161 1.000155 1.000153 |
|---|---|--|---|---|--|
| WSTM SIT | SPEED KNOTS | 17.1 | 2001 201 201 201 201 201 201 201 201 201 | 2620 2620 30 30 30 30 30 30 30 30 30 30 30 30 30 | 666 664 711 711 664 711 766 766 766 766 766 766 766 766 766 |
| | WIND DATA DIRECTION S DEGREES(IN) K | 300 300 400 400 400 400 400 400 400 400 | 666 667.1 67.1 67.1 67.0 67.0 | 25.00 25.00 16.10 25.00 | 2449 255 255 255 255 255 255 255 255 255 25 |
| 40_ | SPEED OF SOUND KHINTS | 057.6 | 649 6449 6449 6469 6409 6409 6409 6409 6 | 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | |
| UPPER AIR DAT 2810040230 STALLION TABLE IX | DENSITY GM/CUB.C MET.R | 1047.2 1040.8 1030.0 | 962-1 962-3 975-1 944-1 944-1 | 688 888 888 888 888 888 888 888 888 888 | 200 700 700 700 700 700 700 600 600 600 6 |
| | KEL.HUM. PERCENT | 27.0 28.8 35.5 | 50000000000000000000000000000000000000 | 55.5 566.5 74.1 691.7 691.7 633.0 | 6 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 |
| T MSL | TEMPERATURE R DEMPOINT EES CENTIGRADE | 16.6 | 1.0.3 1.0.3 | 113.1 112.4 112.6 112.6 113.9 | 22.22.22.22.22.22.22.22.22.22.22.22.22. |
| 0.60 FEE | TEMP AIR DEGREES | 111.8 | th 100 to | 110.00 | 111111111111111111111111111111111111111 |
| STATION ALTITUDE 4940.60 FEET 7 OCT. 76 ASCENSION NO. 236 | PRESSURE MILLIBARS | 858.0 856.1 840.5 | 7594.7 779.8 755.1 750.8 722.5 | 768.7 681.5 681.5 682.3 642.5 | 593.6 593.6 570.4 570.4 527.6 527.0 510.7 |
| STATION ALTIT 7 OCT. 76 ASCENSION NO. | GEOMETRIC ALTITUDE MSL FEET | 5500.0 | 7000.0 7000.0 7500.0 85000.0 9500.0 | 1050000 1050000 1150000 1250000 1350000 | 14006.0 14500.0 15000.0 15500.0 16500.0 17500.0 17500.0 18500.0 |

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| | |

WSTM SITE COORDINATES 403783.00 FEET E 701403.00 FEET N

TABLE IX (CONT)

| INDEX OF REFRACTION | 1.000147 1.000147 1.000142 1.000139 1.000134 1.000123 1.000123 1.000123 1.000113 1.000113 1.000113 1.000103 1.000103 | 1.000100 1.000098 1.000097 1.000095 1.000091 |
|---|--|--|
| SPEED KNOTS | 884.1 990.1 990.1 991.7 992.7 1001.7 1001.7 1001.7 1001.7 1001.7 1001.7 1001.7 1001.7 1001.7 1001.7 | 116.2 119.4 116.5 110.0 105.0 |
| WIND DATA DIRECTION SP DEGREES(IN) KN | 35 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | 343.1 342.5 341.3 337.5 335.2 |
| SPEED OF SOUND KNOTS | 62557 62557 6257 6257 627 627 627 627 627 627 627 627 627 62 | 596.9 593.4 593.4 590.7 589.3 |
| DENSIT, GM/CUB.C METER | | 444 444 444 444 440 440 440 440 440 440 |
| REL. HUM. PERCENT | 38 50 50 50 50 50 50 50 50 50 50 50 50 50 | 35.0 33.0** 27.6** 22.2** 16.9** |
| TEMPERATURE R DEWPOINT EES CENTIGRADE | 15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 148.0 149.3 151.1 153.5 156.2 159.3 |
| TEMP AIR DEGREES | 114.1 115.1 115.1 117.1 120.7 120.7 120.7 120.7 120.1 130.1 131.6 131.6 131.6 | 1339.0 |
| PRESSURE MILLIBARS | 486.8 477.1 4677.1 449.0 422.4 413.8 413.8 344.5 344.5 334.6 313.9 | 300.7 294.1 281.2 274.9 268.7 |
| GEOMETRIC ALTITUDE MSL FEET | 19500.0 20500.0 21500.0 21500.0 21500.0 22500.0 24500.0 24500.0 25500.0 26500.0 27500.0 27500.0 27500.0 27500.0 27500.0 27500.0 27500.0 27500.0 27500.0 27500.0 27500.0 27500.0 27500.0 27500.0 | 310000 315000 320000 325000 335000 340000 |

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

| | - | 4 | | - |
|------|-------|----|---|---|
| 1000 | 0.80% | -4 | • | |

| SITE COORDINATES 4.3783.00 FEET E 7.1403.00 FEET N | INDEX OF REFRACTION | 1.000088 1.000083 1.000083 1.000083 1.000083 1.000083 1.000083 1.000083 1.000083 1.000083 1.000083 1.000083 1.000083 1.000083 1.000083 1.000083 1.000083 1.000083 1.000083 1.000083 | |
|---|---|---|--|
| MSTM SITE 4-378 | SPEED KNOTS | 11111111111111111111111111111111111111 | |
| | WINC DATA DIMECTION S DEGREES(IN) K | 23 28 28 28 28 28 28 28 28 28 28 28 28 28 | |
| S DATA 5230 ION (CONT) | SPEED OF SOUND NNOTS | 0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0. | |
| UPPER AIR DATA 2810046230 STAL_ION TABLE IX (CONT) | DENSIT, S GM/CUBIC METER | 0.000 | |
| | REL.HUM. PERCENT | . 7** | |
| T r.SL | TEMPERATURE R DEWPOINT EES CENTIGRADE | -68.4 | |
| 10.00 FEET | TEMP A1R DEGREES | 665.23 | |
| UDE 494 | PRESSURE MILLIBARS | 256.8 251.1 2234.1 2234.1 2234.1 2234.1 223.4 213.1 223.4 193.0 184.5 153.0 153.0 153.0 153.0 153.0 153.0 153.0 153.0 153.0 153.0 | |
| STATION ALTITY 7 OCT. 76 ASCENSION NO. | SEOMETRIC ALTITUDE MSL FEET | 345000.0 355000.0 355000.0 355000.0 375000.0 375000.0 415000.0 425000.0 | |
| | | | |

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

| SITE COORDINATES 463783.00 FEET E 701463.00 FEET N | INDEX OF REFRACTION | 1.000047 | 1.000045 | .0000 | 1-000043 | 1.000041 | | 1.000039 | 1.000038 | 1.000037 | 1.000036 | 1.000035 | 1.000034 | 1.000033 | • 00003 | 1.000031 | 1.000030 | 1.000030 | 1.000029 | 1.000028 | 1.000028 | 1.000027 | 1.000027 | 1.000026 | 1.000025 | -00005 | 1.000024 | .00002 | 1.000023 | 1.000022 |
|--|---|----------|----------|---------|----------|----------|---------|----------|----------|----------|----------|----------|----------|----------|---------|----------|----------|----------|--------------|----------|----------|----------|----------|----------|----------|---------|----------|---------|-----------|----------|
| WSTM SIT | SPEED KNOTS | 59.1 | 58.0 | 59.0 | 57.6 | 55.0 | | 44.3 | 36.6 | 29.5 | 24.7 | 22.5 | 20.0 | 19.2 | 17.9 | 14.9 | 12.8 | 11.2 | 6.6 | 9.5 | 8.7 | 8.5 | 8.7 | g•3 | 8.7 | 8.7 | 7.9 | 6.8 | 2.1 | 4.6 |
| | WIND DATA DIRECTION S DEGREES(TN) K | 325.0 | 327.6 | 330.7 | 332.5 | 3.34 - 3 | 332.8 | 330.8 | 325.1 | 315.9 | 306.7 | 299.7 | 5967 | 305.0 | 314.7 | 327.1 | 344.6 | 356.4 | 10.01 | 18.2 | 22.4 | 25.1 | 24.7 | 24.5 | 25.2 | 55.9 | 25.4 | 24.4 | 19.5 | 1.4 |
| Alf o NT) | SPEED OF SOUND ANOTS | 561.1 | 561.8 | 562.5 | 563.3 | 564.6 | 564.5 | 564.3 | 564.2 | 9.496 | 266.7 | 565.8 | 565.0 | 564.2 | 565.7 | 567.6 | 569.5 | 570.1 | 269.6 | 569.1 | 568.6 | 568.1 | 567.6 | 567.1 | 566.5 | 565.7 | 567.0 | 569.2 | 570.0 | 9.075 |
| UPPER AIN DAIN 28100-0636 STALLION TABLE IX (CONT) | DENSIT, S GM/CUB1C METER | 20,2 | 200.0 | 190.1 | 19.07 | 18.5 | 175.1 | 17,09 | 169.7 | 165.3 | 160.2 | 150.7 | 155.4 | 15,01 | 145.7 | 141.3 | L) | F) | 13,04 | 127.5 | 124.6 | 121.8 | 119.1 | 110.5 | 113.9 | 117.5 | 108.3 | 104.9 | . 7 | 66.5 |
| | REL.HUM. PERCENT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 FEET MSL 10 HRS MDT | TEMPERATURE AIR DEWPOINT LEGREES CENTIGRADE | -65.7 | -03.2 | 9.49- | -64.1 | 65.0 | 2000 | -63.3 | -63.4 | -63.1 | -61.6 | -62.2 | -02.8 | -63.4 | -62.3 | -60.9 | -59.5 | -59.0 | +.69- | -59.7 | -60.1 | -60.5 | -60.8 | -61.2 | -61.7 | -62.3 | -61.3 | -59.7 | -59.1 | -56.7 |
| STATION ALTITULE 4945.00 FEET MS 7 OCT. 76 1210 HRS MDT ASCENSION NO. 236 | PRESSURE MILLIBARS DA | 124.6 | i | i. | | 110.0 | | | | | | | Ì | | | 80.1 | A | 82.0 | | | | | | 40.07 | | | | .3 | | 61.3 |
| STATION ALTIT 7 OCT. 76 ASCENSION NO. | GEOMETRIC ALTITUDE MSL FEET | 49500.0 | 50000.0 | 50500.0 | 51000.0 | 0.00000 | 0.00076 | 53000.0 | 53500.0 | | 0.00545 | 55000.0 | 55500.0 | 5600000 | 56500.0 | 57000.0 | 57500.0 | 54000.0 | 59500.0 | 2900000 | 59500.0 | 6000000 | 60500.0 | 61000.0 | 0.00519 | 62000.0 | 0.00529 | 63000.0 | 63500 • 0 | 0.00049 |

| 101 | ALI 11 JEE | 4940.00 FEE | 121 |
|------|------------|------------------------|-----|
| SCI. | 76 | 7 oc1. 76 1210 HRS MDT | T |

ULPER ALM DATA 28100, 0230

MSTM SITE COURDINAIES 4 3763.00 FEET E 7 1403.00 FEET W

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|---------------------------------|---|
| 7.140 | SPEED NAOTS |
| | WIND DATA LINECTION SP DEGREES(TH) NA |
| ONT) | SPETU OF SOUND ALCTS |
| STAL_10W | NEL.HUM. DENSIT, SPETO OF PERCENT GMZCUBIC SOUND. |
| | NEL . HUM. |
| 1210 HRS MDT | TEMPERATUPE REL. HUM. DENSIT: SPECO OF WIND DATA AIR DEWPOINT PERCENT GM/CUBIC SOUND DIRECTION SPEED DEOREES CENTIONALE METER ALOTS DEGREES(TI) ANOTS |
| .u. 23n | PRESSURE MILLIBARS |
| 7 UCT. 76 ASCENSION 1.0. 230 | GEGMETRIC PRESSURE ALTITUDE MSL FELT MILLIBARS |
| | |

| INDEX OF REFRACTION | 1.000022 1.000021 1.000021 1.000019 1.000018 1.000018 1.000018 1.000016 1.000015 1.000016 1.000013 1.000013 1.000013 |
|---|--|
| SPEED KNOTS | 4 4 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| WIND DATA LINCCTICN S LEGNEES(TH) N | 66 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| SPETU OF SOUND ALATS | 00000000000000000000000000000000000000 |
| DENSIT, S GM/CUBic METER | 90000000000000000000000000000000000000 |
| NEL • HUM. PERCEPIT | |
| TEMPERATUPE R DEWPOINT EES CENTIGRACE | |
| TEMP A I R DE OREES | 0.000000000000000000000000000000000000 |
| PRESSURE TEMPERA AIR DE MILLIBARS DEONEES CEN | 0.000000000000000000000000000000000000 |
| DECMETRIC ALTITUDE MSL FELT | 64500.00 655000.00 655000.00 67500.00 67500.00 72500.00 72500.00 72500.00 72500.00 72500.00 72500.00 72500.00 72500.00 72500.00 72500.00 72500.00 |

| STATION ALTITUDE 4940.00 FLET MSL 7 UCT. 76 1210 HRS MDT |
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26100+0230 STAL_ION

WSTM SITE COORDINATES 403763.00 FEET E 701403.00 FEET N

TABLE X

| WILL DATA CTION SPEED ES(TM) KNOTS | 17.2 19.7.2 16.9.1 100.1 100.0 116.6 116.6 106.9 106.9 106.9 106.9 106.9 106.9 106.9 106.9 106.9 | 3.0 |
|--|---|-------|
| WIND DIRECTION DEGREES(TN) | 33.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 2000 |
| REL . HUM. | 8 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | |
| TEMPERATURE R DEWPOI.T REES CENTIGRADE | 1.100.40 1.100.40 1.100.40 1.100.40 1.100.40 1.100.40 | |
| AIR DEGREES | 11111111111111111111111111111111111111 | 1.66- |
| PRESSURE GEOPOTENTIAL | 5195. 6826. 8527. 10313. 12202. 14219. 16404. 18810. 21424. 27465. 31005. 35031. 39740. 42525. 45566. 49305. 53791. 58332. 64214. | |
| PRESSURE O | 25000000000000000000000000000000000000 | 0.01 |

| STAILON | AL 111UDE | ALITIDE 3939.00 FEET MSL | EET | NSL. |
|----------|----------------------|--------------------------|-----|------|
| 95C+1051 | ASC - 05 - 10 - 0.79 | 1220 HRS MDT | MDI | |

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| SIGNIFICANT LEVEL 0 28100_0675 | |
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WHILE SANDS

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| KEL.MUM PERCENI | 34.0 |
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| TEMPERATURE AIR DEWFOINT DEGNEES CENTIGRADE | 15.4 |
| TENPE A1R DFGNEES | 14.4 |
| PRESSURE GEOMETRIC ALTITUDE "ILLIBARS MSL FEET | 3969.0 5171.3 |
| PRESSURE | 887.4 |

| | 0.60 | 34.0 | 50.0 | 6,3.0 | 0.69 | 75.0 | 71.0 | 55.0 | 14.0 | 9 | .9 | - | 9 | | | .9 | 17.0 | |
|--------------|------|------|------|-------|------|-------|------|------|-------|-----|-------|-------|-------|-------|-------|-------|-------|--|
| CEN I JOHADE | 1.5- | 9.4- | 6.6- | 0.6- | 8.6- | 4.01- | 10. | • | 5.67- | - | -21.0 | -21.8 | 6.50- | -41.3 | -43.1 | 2.44. | 1.81 | |
| UF GNEES | | | | | | | | | -6.5 | 10. | 10. | | 13. | 22. | | | -32.0 | |
| - | | | | | | | | | | | | | | | | | | |

11969.7 12348.3 13457.2 13931.7

647.6

8.809

581.8 539.2 520.6

9306.3 10338.7

728.2

11144.1

700.0 9.629 657.2 18944.7

500.0

17924.8

17035.1

15095.3

25180.4

388.2 360.4 333.4

26781.9

24460.2

0.004

-38.3 -43.3 -48.9

31203.7

300.0 278.2 250.0

35233.9

38093.6 39478.3

218.6

-55.6 -57.0 -55.1 -53.8 -57.4

39954.7

42498.9

177.2

161.0 150.0

194.4

2000

-62.1 -64.6 -68.2 -63.7

44473.6 45907.0 48248.2 50907.3

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| STATION ALTITUDE 3969.00 FEET MSL 7 UCT. 70 | ASCENSION NO. 679 |
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WSTM SITE COORDINATES 4/8580.00 FEST E 1/5045.00 FELT N

TABLE XI (CONT)

| GEOMETRIC | IE MP | ERATURE | X |
|-----------|---------|---------------|----|
| ALTITUDE | AIR | AIR DEM, CINI | PE |
| NSL FEET | UFGNEES | CEN, IGRADE | |

| REL . "UM. PERCENT | | | | | | | | | | |
|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| TEMPERATURE AIR DEMI-UINI UFGREES CEN, IGRAUF | -67.4 | -65.9 | -65.5 | -59.5 | -61.8 | -59.5 | -58.4 | -53.6 | -52.9 | -53.3 |
| PRESSURE GEOMETRIC ALTITUDE MÍLLIBARS MSL FEET | 53119.6 | 54016.9 | 54421.9 | 55619.6 | 59632.2 | 61321.8 | 66290.7 | 70504.4 | 79133.4 | 79855.9 |
| PRESSUR MILLIBAR | 104.6 | 100.0 | 98.0 | 92.4 | 76.0 | 70.0 | 50.0 | 45.0 | 30.0 | 29.0 |

| 51TE COORDINATES 4.8580.00 FEET E 1.5045.00 FEET N | INDEX OF KEFRACTION, | .00026 .00026 | 00025 | .00024 | .0002 .0002 | | 1.000216 1.000212 1.000209 1.000206 | 1.000201 1.000196 1.000190 1.000130 1.000176 | 000000 |
|--|---|---|----------------------|--------|----------------|-------------------------|--|--|--|
| LSTM S1TE 4 1858 1.504 | SPEED KHOTS | 13.1 | 16.9 | 19.2 | 14.5 | 14.7 | 17.5 17.5 20.5 20.5 | 31.600.0 | 500 500 500 500 500 500 500 500 500 500 |
| | WINC DATA DIRECTION SI DEGREES(IN) KI | 350.0 350.1 | 8.68 8.69 8.69 | 000 | 54.55 | 349.2 | 344.0 | 316.4 312.4 310.4 312.4 | 313.5 315.1 317.3 330.0 537.7 |
| £ 52.0 | SPEED OF SOUND | 661.3 661.2 658.8 | 050.4 | 051.7 | 048.8 | 644.3 642.9 641.7 | 636.9 636.9 | 635.7 635.7 635.7 636.0 | 636.2 635.4 633.2 632.1 632.1 |
| UPER AAN DAGA 28100_0679 AHITE JANDS TABLE XII | DENSIT, S GM/CUBIC METER | 1072.9 | 1045.6 | 1000.9 | 0.096 0.096 | 930.1 924.6 915 | 8846 847 857 857 857 857 857 857 857 857 857 85 | 820.0 820.0 812.9 774.4 | 766.8 744.9 737.9 726.0 714.4 704.6 687.3 |
| | KEL.HUM. PERCENT | 29.0 | 33.3 | 39.1 | 0.6.9 | 52.4 58.7 | 71.6 | 61.6 51.5 15.9 | 1000 + 0 + 5 |
| .T MSL OT | IEMPERATURE K DEWPOINT EES CENTIGHADE | 1 3 . 4 . 4 . 4 . 4 . 4 . 4 . 4 . 4 . 4 . | 1 1 1 1 2 4 | | 18.3 | 2.5 | 10.00 | 113.3 128.6 128.6 | 129.6 130.2 131.0 131.0 |
| 9.00 FEET 1220 HRS MDT | TEMF AAK DEOKEES | 14.4 | 2.07 | 26.5 | 1.5 | 17.5 | 0 2 4 0 | 12.50 | 110000 |
| ULE 398 | PRESSURE TEMP A1K m1LLTBAPS DEGMEES | 587.4 567.0 671.0 | 839.6 | 868.8 | 764.7 | 736.6 | 082 082 0669 0656 082 082 082 082 082 082 082 082 082 082 | 631.4 619.2 607.2 | 584.0 572.6 561.5 550.6 539.9 529.4 |
| STATION ALTIT 7 OCT. 76 ASCENSION NO. | GEOMETRIC ALTITULE MSL FEET | 4000.0 | 5500.0 | 7500.0 | 6000.0 | 95000.0 | 11500.0 | 13000.0 | 15500.0 15500.0 16500.0 17000.0 17500.0 |

| 1E COORDINATES 8550-00 FEET E 5045-00 FEET N | · INDEX OF HEF RACTIO. | 1.000153 | 1.000150 | .10001 | 1-000145 | 1000 | 1.000138 | .0001 | .0001 | 1.000131 | 1.000129 | 1.000127 | 1.000125 | 1.000123 | 1.000121 | 1.000118 | 1.000116 | 1.000114 | 1.000112 | 1.000110 | 1.000109 | 1.000107 | 1.000105 | 1.000163 | 1.000102 | 1.000100 | 1.000098 | 1.000001 | 1.000095 | 1.000004 |
|--|---|----------|----------|---------|----------|---------|----------|---------|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| ASTA STE 4.858 | ATA SPEED KAOTS | 9 | 69.7 | 74.5 | 75.1 | 71.5 | 72.0 | 73. | 76. | 19. | 81.2 | 81.6 | 81. | 81. | 81.3 | 80. | 80.2 | 80.4 | 80.0 | 83.2 | 86.1 | 88.0 | 91.3 | 93.8 | 95.5 | 0.76 | 98.4 | 91.6 | 96.4 | 95.6 |
| | WIND A | 245.4 | 345.2 | 341.0 | 5.7.7 | 33. | 334.6 | 336. | 237.2 | 336.2 | 328.5 | 339.3 | 3.90.5 | 240.0 | 341.4 | 342.0 | 342.7 | 342.5 | 241.9 | 340.7 | 339.2 | 337.€ | 336.4 | 335.0 | 333∙€ | 332.7 | 331.6 | 331.2 | 330⋅8 | 3.50.5 |
| 77.9 77.9 (D.) SONT) | ים ברבות מאויכנ כל הנות | 6.0.0 | 9.660 | 1.900 | 4.800 | 1000 | 6.400 | 33.60 | 025.2 | 3.000 | 6.6.0 | 013.1 | 010.7 | 6.410 | 013.6 | 013.2 | 312.6 | 611.0 | 6.600 | 0.7.0 | 0.900 | 004.3 | 01.2.10 | 0.1ua | 509.3 | 5.17.7 | 595.9 | 294.0 | 592.1 | 500.3 |
| TABLE XII (CONT) | DELISITA S GMZCUCAC NETER | 671 | 66,.0 | 65,00 | 8. 49 | 2000 | 61,0 | 007.1 | 9.765 | 58.3 | 57.01 | 564.0 | 550.5 | 541.0 | 531.5 | 521.4 | 511.0 | 503.3 | 501.3 | 49,05 | 483.9 | 470.5 | 410.4 | 46.08 | 45,03 | 0.044 | 448 | 43,08 | 5 | 42,.1 |
| | RELOHUM. PURCETT | 16.6 | 17.0 | 16.0 | 16.3 | 0.01 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.2 | 16.4 | 16.6 | 16.9 | 15.5** | 12.0** | | **6** | 1.4** | | | | |
| ו מאבר שני | TEMPERATURE R OLWFOINT EES CENTIONALE | -31.5 | -31.9 | -32.6 | -33.3 | 30.45 | -35.3 | -26.0 | 57.7 | -38.6 | | 5.04- | | | -43.3 | | | | • | | • | | | -57.1 | -02.3 | | | | | |
| 1220 HRS MDT | TEMP A1R DEUGEES | -11.0 | 6.11- | 175.4 | 12.0 | 1200 | 6.61- | -17.0 | -1001 | -19.5 | 1-50.4 | -21.5 | 9.77- | -24.1 | 6.47- | 4.02- | 6.67- | -27.2 | -24.5 | 6.67- | -31.2 | -35.6 | -33.9 | -35.2 | -30.5 | -31.8 | -39.5 | 1.00- | -42.1 | 9.64- |
| 1110EE 396 | PRESSURE MILLIBARS | 508.9 | 6.064 | 409.1 | 4.624 | 403.0 | 451.2 | 442.1 | 433.2 | 454.5 | 415.9 | 467.6 | 399.3 | 391.1 | 383.0 | 375-1 | 367.3 | 359.6 | 352.1 | 344.7 | 337.4 | 530.5 | 523.1 | 316.2 | 309.3 | 302.7 | 296-1 | 289.5 | 283.1 | 270.9 |
| 51A110W ALITIUE 3909.00 FELT MSL 7 OCT. 76 1220 HRS MDT ASCLASION NO. 079 | GEOMETRIC ALTITUDE SE FELT | 10500.0 | 19000.0 | 19500.0 | 20000-0 | 2130.00 | 21500.0 | 24000.0 | 22500.0 | 23000.0 | | 24006.0 | 24500.0 | 25000.0 | 25500.0 | 20000-0 | 20500.0 | 27000-0 | 27500.0 | 23000.0 | 28500.0 | 29000.0 | 29500.0 | 30000-0 | 30500.0 | 31000.0 | 31500.0 | 32000-0 | 32500.0 | 33000.0 |

AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE ARS USED IN THE INTERPOLATION.

| SITE COUKDINATES 4×85K0.00 FEET E 1>5045.00 FEET N | INDEX OF I.EFKACTIO: | 1.000092 1.000090 1.000089 | | 1.000083 1.000081 1.000080 | | 1.000075 1.000073 1.000071 | $\begin{array}{c} 1.000069 \\ 1.000068 \\ 1.000066 \end{array}$ | 1.000065 | 1.000060 | .00005 .00005 .00005 | • 00000 |
|--|---|----------------------------------|----------------------|----------------------------------|--------------|----------------------------------|---|-------------------------------|--|----------------------------------|---------|
| #STM SITE 40858 10504 | SPEED KNOTS | 94.5 | 94.0 | 95.7 | 96.0 95.8 | 90.7 | 78.0 74.2 | 69.3 58.0 | 4 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | 30000 20000 20000 | 50.3 |
| | AIND DATA DIRECTION S DEGREES(TN) K | 330.4 | 330 · 3 330 · 4 | 331.3 331.9 | 332.6 | 334.4 335.6 336.9 | 358-0 359-1 340-3 | 342.1 | 3.40 3.40 3.40 3.40 3.00 3.00 3.00 3.00 | 325.5 318.6 315.0 312.0 | 311.7 |
| DATA 75 DS ONT) | SPEED OF SOUND KNOTS | 548.8 547.2 545.7 | 582.6 582.6 | 578.0 | | | | | | 562.4 561.4 560.3 | 258.2 |
| UPPER AAR DATA 2410020679 WHITE JANDS | DENSIT, GM/CUBIC METER | 412.7 | 384.6 | 364.2 | 351.2 | 324.6 324.3 310.7 | 305.7 | 291.8 280.1 280.8 | 272.5 | 254.6 244.6 234.3 234.1 | 253.5 |
| | KEL.HUM. PERCENT | | | | | | | | | | |
| J.OU FEET MSL 1220 HRS MDT | TEMPERATURE ALK DEWPOINT DEGKEES CEMTIGKADE | -44.8 -45.9 | 1.69.5 | -55.0 | 50.0 | 0.00 | -55.9 -55.6 | -507.4 -507.4 -508.6 | -61.0 -62.1 -63.0 | -65.3 -65.3 -65.3 | 0 |
| UDE 3989 | PRESSURE MILLIBARS DEC | | 246.9 -4 241.2 -4 | | | | | 181.5 177.2 172.9 | | 00000- | 1.0 |
| STATION ALTIT 7 OCT. 76 ASCLMSION NO. | GEOMETAIC ALTITUDE MSL FEET | 34500.0 34500.0 | 35000.0 | 37500.0 | 38500.0 | 39500-0 | 40500.0 41000.0 41500.0 | 42000.0 42500.0 43000.0 | 44000.0 | 45506.0 46500.0 47500.0 | 19000-0 |

| SITE COORDINATES 4P8580.00 FEET E 1A5045.00 FEET N | INDEX OF REFRACTION | • 00005 | | 1.000047 | | +00000 | 1.000042 | 1.000041 | 1.000040 | 1.000040 | 1.000039 | 1.000037 | 1.000036 | 1.000035 | 1.000034 | 1.000032 | 1.000031 | 1.000031 | 1.000030 | 1.000029 | 1.000029 | 1.000028 | 1.000027 | 1.000027 | 1.000026 | 1.000025 | 1.000025 | 1.000024 | 1.000023 |
|--|---|---------|---------|----------|---------|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| MSTM SITE 4P858 1R504 | CATA SPEED | 55.5 | 53.0 | 50.6 | 48.7 | 48.2 | 6.94 | 45.3 | 43.6 | 40.3 | 36.1 | 32.0 | 28.1 | 24.4 | 20.6 | 14.0 | 12.2 | 10.7 | 10.1 | 4.6 | 10.5 | 12.1 | 13.7 | 14.0 | 15.0 | 15.1 | 15.2 | 13.0 | 10.5 |
| | LINECTION DEGREES(IN) | 312.4 | 314.6 | 319.7 | 322.6 | 325.6 | 326.9 | 327.6 | 328.4 | 327.9 | 356.€ | 325.0 | 323.3 | 321.2 | 318.4 | 318.7 | 320.0 | 326.1 | 335.7 | 346.2 | 355.1 | 1.1 | 5.8 | 9.4 | 8.7 | 0.6 | 9.3 | 9.4 | 8·9 |
| LETA MADS (CONT) | SPEED OF SOUND KIND | 558.3 | 529.5 | 561.7 | 562.9 | 563.6 | 562.5 | 561.3 | 560.2 | 559.1 | 559.7 | 540.8 | 561.9 | 545.3 | 568.6 | 568.8 | 568.4 | 568.0 | 567.6 | 567.2 | 566.9 | 566.5 | 567.0 | 567.9 | 568.9 | 569.5 | 569.6 | 569.7 | 569.8 |
| UPPER ATK DAIN 28100c0679 MHITE SANDS TABLE XII (CONT) | DENSIT, GM/CUB1C METER | • | 217.0 | 204.8 | 190.9 | ; | 18,.5 | 185.6 | 181.7 | 170.0 | 173.2 | 160.3 | 163.5 | 157.6 | 152.0 | 144.7 | 147.4 | 130.5 | 135.0 | 132.0 | W | 120.0 | 12, 8 | 117.4 | 110.2 | 113.1 | 110.4 | 107.7 | 1001 |
| | REL.HUM. PERCENT | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| .UU FEET MSL 1220 HRS MDT | TEMPERATURE R DEWPOINT EES CENTIGRADE | m. | | -100 | | | | • | | | | | | | | | _ | • | | | | | | | | • | | | • |
| 89.00 F | DEGR | -67.8 | 6.00- | -65-2 | 1.40- | -63.9 | -040- | -65.5 | 100- | 20/05 | 0.00- | -05.9 | -62- | -62.6 | -59.7 | 0.09- | -00-3 | -60.6 | -20.9 | -61.2 | -61.4 | -61.1 | -61.3 | -60.6 | -29.9 | -59.5 | -29.4 | 2 | -28.5 |
| .TITUDE 39 | PRESSURE MILLIBARS | 131.7 | 128.5 | 125.3 | 119.2 | 116.3 | 113.4 | 110.6 | 107.9 | 105.2 | 102.6 | 100.1 | 9.16 | 95.3 | 90.7 | 88.5 | 86.4 | 84.3 | 85.3 | 80.3 | 10.4 | 76.5 | 14.7 | 72.9 | 71.1 | 4.69 | 67.7 | • | 9.49 |
| STATION ALTITUDE 3989.00 7 OCT. 76 ASCENSION NO. 6/9 | GEOMETRIC ALTITUDE MSL FEET | 48500.0 | 0.00064 | 50000-0 | 50500.0 | 51000.0 | 21500.0 | 52000.0 | 52500.0 | 0.00000 | 0.00055 | | 0.000+0 | 0.00055 | 5600000 | 56500.0 | 57000.0 | 57500.0 | 0.00095 | 58500.0 | 0.00060 | 0.00660 | 0.00000 | 0.00000 | 61000-0 | 61500.0 | 62000.0 | 2500 | 63000.0 |

| SITE COORDINATES 438580.00 FEET E 1/5045.00 FEET N | INDEX OF REFRACTION | 1.000023 1.000022 1.000022 1.000022 1.000021 1.000020 1.000018 1.000017 1.000016 1.000016 1.000014 1.000014 1.000014 1.000013 1.000013 1.000013 1.000013 1.000013 1.000013 | 1.000012 1.000011 1.000011 |
|---|---|--|----------------------------------|
| WSTM SITE | SPEED KNOTS | | 9.1 |
| | WIND DATA DIRECTION S DEGREES(IN) K | 22522222222222222222222222222222222222 | 152.6 |
| EA1A 673 405 (CONT) | SPEED OF SOUND KIND IS | | 578.0 578.0 578.0 |
| UFPER AAR DAI 2810020679 WHITE JANDS TABLE XII (CONT | DENSIT I GM/CUBIC METER | 000 000 000 000 000 000 000 000 000 00 | 5,00 |
| | REL.HUM. PERCENT | | |
| .OU FEET MSL 1220 HRS MOT | TEMPERATURE R DEWPOINT EES CENTIGRADE | и | |
| 1220 | AIR DEGREES | | 25.0 |
| .T1TUDE 39 | PRESSURE HILLIDARS | 663 663 663 663 663 663 663 663 663 663 | 32.4 |
| STATION ALTITUGE 3969.00 7 OCT. 76 ASCENSION NO. 679 | GEOMETRIC ALTITUDE MSL FEET | 64500.0 64500.0 64500.0 64500.0 65000.0 67500.0 70500.0 72500.0 72500.0 74500.0 74500.0 74500.0 74500.0 74500.0 | 756000 |

| WSTM SITE COORDINALES 488560.00 FEET E 15045.00 FEET N | INDEX OF REFRACTION | 1.000011 1.000011 1.000010 |
|---|---|--|
| 488 488 135 | "INC DATA DIRECTION SPEED DEGREES(IN) KNOTS | |
| UPPER A.K UNIA 28100-0079 WHITE JANDS TABLE XII (CONT) | | 46.9 578.1 47.8 578.2 40.7 5.7.9 |
| OU FEET MSL 220 HRS MDT | SEOMETRIC PRESSURE TEMPERATURE REL·HUM. DENSIT. SPEED OF ALTITUDE ALTITUDE ALTITUDE ALEL HILLIDARS DEOREES CENTIGRADE METER METER NAOIS | -53.0 -52.9 -53.1 |
| STATION ALTITUDE 3989.00 FEET MSI 7 OCT. 76 ASCENSION NO. 079 | METRIC PRESSURE TITUDE FEET MILLIDARS DE | 78500.0 30.9 -53.0 79000.0 30.2 -52.9 79500.0 29.5 -53.1 |

| HRS MDT | |
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| 7 cc1. | ASCENSION NO. |
| | 7 CCI. 70 1220 HRS MDT |

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| C.A.A. | | |
| | | |

WSTM SITE COORDINATES 4:8580.00 FELT E 1:5045.00 FELT N

TABLE XIII

| WILD DATA DIRECTION SPEED DEGREES(IR) KNOTS | 359.9 17.5 | | | | | | | | | | | 332.3 97.5 | | | | | | | | 8.9 15.0 | | | 7.3 .2 | |
|---|------------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|------------|--------|--------|--------|--------|--------|--------|---------|----------|--------|--------|--------|--------|
| | 35 | ~ | 356 | 341 | 33, | 31 | 34, | 346 | 334 | 33, | 40 | 33, | 33(| 330 | 34 | 310 | 31. | 320 | 34 | _ | 34 | 28 | 1 | |
| PLACENE | 34. | 10. | 47. | 63. | 72. | 15. | 15. | 17. | 10. | 16. | 16. | | | | | | | | | | | | | |
| TEMPERATURE AIP DEMPOLIT MERRES CENTIGRADE | -5- | 6.9- | -8. | 7.6- | -10.5 | -28. | -30.0 | -31. | -36.0 | -41.5 | 46 | | | | | | | | | | | | | |
| AIP AIP GREES | 9.6 | 5.5 | 1.2 | -3.0 | 0.9- | 4.9- | -6-1 | -11.8 | -16.0 | -22.5 | -28.0 | -38.3 | 6.84- | -55.1 | -58.0 | 9.49- | J-99- | -62.9 | -61.2 | -59.5 | -59.0 | -58.4 | -53.4 | -52.0 |
| PRESSURE GEOPOIGNIIAL | 5170. | £608• | 6525. | 10333. | 12244. | 14293. | 16516. | 18924. | 21553. | -82nh7 | 27604. | 31152. | 35168. | 39871. | 42663. | 45790. | 49416. | 53867. | .80 pgc | 61131. | 04599. | 68057. | 72742. | 78524. |
| PRESSURE G | 0.050 | 0.009 | 750.0 | 100.0 | 0.050 | 0.000 | 0.050 | 500.0 | 450.0 | 400.0 | 356.0 | 500.0 | 0.057 | 200.0 | 175.0 | 0.001 | 175.0 | 100.0 | 0.00 | 10.07 | 0.00 | 0.00 | 0.0+ | 30.0 |

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.